



5000 & 5100 Series GenStar™ Precision Bearing 2-1/2" x 11 Gauge



- Load capacity 1000 # per bearing
- ABEC-1 6005-2RS Precision Sealed Core Bearing
- Quiet running operation
- *IronGrip* carbon steel adapter with retention slots
- Insert molded static discharging bushing & isolator sleeve
- Crimping of roller assembly required
- Extensions available in 3/16" & 15/32"

Load & Life

2-1/2" x 11 gauge crimped conveyor rollers utilizing GenStar™ 5000 & 5100 Series Precision Bearings endure testing at 820 surface feet per minute carrying a continuous load of 2000 lbs.

Precision Core Bearing

Load rating of the ABEC-1 6005-2RS precision core bearing is 2260 lbs. Double contact seals contain the lubrication and seal out contaminants.

Noise Levels

Frantz GenStar™ 5000 & 5100 Series Precision Bearings run at approximately 50 Decibels. In comparison, a conventional Frantz 2500 Series stamped metal bearing runs at 88 Decibels. The *insert molded* plastic components prove to reduce noise level within the precision bearing assembly.

IronGrip Metal Adapter

IronGrip carbon steel adapter houses the *insert molded* isolator sleeve, precision core bearing and *insert molded* bore bushing. The steel adapter protects the polymer isolator sleeve from harmful damage and skiving when the bearing assembly is "pressed and crimped" into metal conveyor roller tubes. The *IronGrip* adapter mated with *insert molded* components and core bearing allows a very secure fit in the roller assembly without sacrificing bearing clearances.

Insert Molded Polypropylene Bushing

The precise process of *insert molding* static discharging polypropylene components in conjunction with the ABEC 1 bearing and *IronGrip* carbon steel adapter assembly proves to be robust in both static and dynamic loads. Results reflect the *insert molded* one piece bushing outperforms traditional latching spider style bushings both in load and life expectancy. Axle lug/bushing interference issues are reduced compared to typical latching style spider inserts as well. The static discharging polypropylene is well suited for high speed applications in a wide range of temperatures.

Insert Molded Polypropylene Isolator Sleeve

The *insert molded* isolator sleeve contains identical static discharging polypropylene material as the bore insert. The isolator sleeve is designed with featured taper for required crimping of the 5000 & 5100 Precision Bearing assembly. The isolator sleeve allows for tubing variation, conformance to crimping and absorbs crimping pressures, alleviating tight or catchy bearings compared to a precision bearing pressed directly into a steel housing. Costly reaming of tubes is eliminated with 5000 & 5100 Bearing. The sleeve is molded within the metal adapter slots to aid in retention. The molded sleeve has proven to provide extreme shock absorbing capabilities and isolates impact loads from damaging the rolling elements of the core bearing. Excellent concentricity is achieved through the *insert molding* process resulting in higher quality and longer life.

Lubrication

ABEC-1 6005-2RS precision core bearings are offered standard with lithium and calcium based grease that exhibits good rust and corrosion resistant properties. Excellent noise reducing ability and mechanical stability are additional characteristics. Temperature range of the grease is -4 to 240 degrees Fahrenheit. Recommended ambient operating temperature range of the bearing assembly is -4 to 180 degrees Fahrenheit.

Assembly

Frantz GenStar™ 5000 Series Precision Bearing assembly is required to be crimped into metal tubing. A precise fit-up between the bearing assembly and roller will aid in increasing bearing life. Frantz Manufacturing has the expertise to supply 2-1/2" Precision Bearing crimp tooling as well.

Interchangeability

An important factor when considering the Frantz GenStar™ 5000 Precision Bearing is the interchange advantage. Numerous competitors offer short bearing extensions in non-precision, semi-precision and precision bearings. The Frantz 5100 Series precision maintains a short 3/16" extension and conforms as an excellent replacement.

The 5000 Bearing was developed to interchange with the Frantz 2500 series Non Precision commercial bearings. The molded insert is identical length thru the bore and maintains the same 15/32" extension. This extension is also standard and will interchange with many competitor products, thus eliminating costly tool changes for relocating stakes on the axles, reducing the need for different tube lengths and limits additional set-up time.

Frantz provides excellent original equipment and replacement bearing compatibility for 2-1/2" x 11 gauge rollers with the GenStar™ 5000/5100 series precision bearings.

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